

HUMIDITY-TEMPERATURE SENSOR



No hairsplitting...

takes place when natural hair is especially treated. The Pernix measuring element is the result of this process. Its special structure heightens the measuring sensitivity and considerably shortens reaction time. The successful outcome is an analogous display of humidity in almost real time. The built-in platinum thermo-meter additionally delivers electric output signals.

- nearly maintenance free
- easy to calibrate
- high accuracy
- large temperature range of application
- especially resistant against environmental influences
- available with 0/4...20mA output signal
- all varieties available without temperature measuring element

automatic weather stations • traffic systems • agricultural weather stations • energy technology • environmental measurement technology • building services



Professional Line

Series (809) Humidity-Temperature Sensor

Measuring elements:
Measuring range:
Accuracy:
Dimensions/ Weight:

Pernix-hair • platinum thermometer (Pt100 1/3 DIN)
5...100% r. h./ division 1% r. h. • -30...+70°C
± 2.5% r. h. with regular regeneration • ± 0.1°C at 0°C acc. to DIN/ IEC751
H 395 mm · shank Ø 29 mm · scale Ø 104 mm · D 79 mm · 1.7 kg (1.5 kg)

Varieties:

00.08090.231 010
00.08090.266 102
00.08090.266 142

(809 Lo-100)
(809 MU)*
(809 MU)*

Outputs:

0...100 Ω (linear) = 0...100% r. h. • Pt 100 = -30...+70°C
0...20 mA = 0...100% r. h. • 0...20 mA = -30...+40°C
4...20 mA = 0...100% r. h. • 4...20 mA = -30...+40°C

Varieties:

00.08000.201 010
00.08000.202 030
00.08000.206 002
00.08000.206 042

Series (800)

Humidity Sensor (without measuring element for temperature)

Outputs:

0...100 Ω (linear) = 0...100% r. h.
50-30-50 Ω (logarithm.) = 0...100% r. h.
0...20 mA = 0...100% r. h.
4...20 mA = 0...100% r. h.

*supply voltage: 24 V_{DC} ± 10% • max. load 500 Ω

Accessories:

see page 45

